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#### CENTRAL INTELLIGENCE AGENCY

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REPORT CD NO.

COUNTRY

Hungary

DATE DISTR.

5 December 1952

SUBJECT

Standard Wireless Equipment Used by the

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Hungarian Army

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(LISTED BELOW)

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SUPPLEMENT TO REPORT NO.

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### THIS IS UNEVALUATED INFORMATION

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1. The wireless set most generally used by the Hungarian Army is referred to as the "R3", although it is being replaced to a certain extent by the Soviet-designed "R20". Higher echelons and artillery units use the "R7" set of which there are several modified types. The following particulars of these sets have been given:

### 2. The "R3" set:

This consists of three principal sections, the transmitter-receiver, power pack, and aerial. The transmitter, which has three modulating valves (type Heising) and separate controls, is housed with the receiver in a metal box. The receiver is a 5-valve superheterodyne set. The power pack contains a 132-Volt Anode dry battery with a capacity of 100 working hours, and a 9-Amp-hours battery with a capacity of 16 working hours. The equipment is usually operated with a detachable frame aerial wound around the transmitter-receiver, but there is also a vertical rod aerial for use in mountainous areas where reception is bad. The latter is retractable and the housing consists of 2 metal tubes, each 3 meters long. Total weight of the entire equipment is 45 kg. It has a range for R/T of 5-6 km., using the frame aerial, and 15-20 km. with the rod aerial. The W/T range is 8-10 km. with the frame aerial, and 30-40 km. with the rod aerial.

# 3. The "R20" set:

The weight of this equipment is considerably less than that of the "R3" set and only amounts to about 16 kg. Tuning difficulties are still being experienced, but face they have been overcome the set will probably replace the "R3" entirely within the Hungarian Army. The equipment, which is constructed as one unit, consists of a 5-valve superheterodyne transmitter, a 3-valve superheterodyne receiver, and a T-shaped retractable aerial, 50 cm. in height, which is screwed on to the top of the set. Power is supplied by a 153-Volt Anode dry battery. The range for R/T is 20 km. and 50-60 km. for W/T.

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# 4. The "R7" set:

This is popularly referred to as the "Command" set and is moved about on special army signals trucks with a 12-man wireless team. The weight of this equipment is considerable, but is possible for the team to carry it for a short distance if the different sections are distributed among them. The two sections comprising the transmitter-receiver can be set up and operated individually if desired. Aerials used are either T-shaped, L-shaped or of the "umbrella" type. Six batteries, each weighing 12 kg., are supplied for every set and these produce a total strength of 20 kw. In addition there is a 40 kw. generator. If the equipment is being carried by the team, one man carries two batteries. A special radio tent is also carried. The range for R/T is 60 km. with the generator, and 30 km. with batteries. With W/T it is 80 km. with generator and 40 km. with batteries.

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